INTERNATIONALSEARCHREPORT

International application No. PCT/IP 2004/015878

	PCT/JP2004			04/01	5878
A. CLASSIFICATIONOFSUBJECTMATTER					
Int.Cl ⁷ B21J 5/08, 9/06, B21K 1/14, 1/18					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols)					
Int.Cl' B21J 1/00 - 13/14, 17/00 - 19/04, B21K 1/00 - 31/00					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
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C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where a	ppropriate, of the rele	vant passages	Relevant	to claim No.
A	JP 5-237584 A (HONDA GIKEN KOGYO K.K.) 1993.09.17, the whole document (Family: none)			1-16	
A	JP 9-253782 A (MATSUMOTO HEAVY INDUSTRY CO., LTD) 1997.09.30, the whole document (Family: none)			1-16	
A	WO 93/17810 A (ENKOTEC A/S) 1993.09.16, the whole document & JP 7-506767 A			1-16	
A	JP 2003-170238 A (SHOWA DENKO K.K.) 2003.06.17, the whole document (Family: none)			1-16	
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Further documents are listed in the continuation of Box C. See patent family annex.					
* Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
"E" earlier application or patent but published on or after the international filing date "X" document of particular relevance; the claimed invention can be considered novel or cannot be considered to involve inventive step when the document is taken alone					ention cannot o involve an
is cited to special	to establish the publication date of another citation or other reason (as specified) nt referring to an oral disclosure, use, exhibition or other				
	nt published prior to the international filing date but later priority date claimed	combination being obvious to a person skilled in the art			
	ctual completion of the international search	Date of mailing of the international search report			
22.02.2005 08 3 2005					
Name and mailing address of the ISA/JP		Authorized officer		3P	8614

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